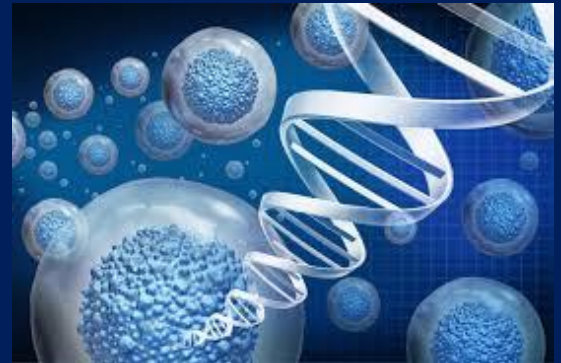




## SUMMER RESEARCH EXPERIENCE FOR TEACHERS IN MECHANOBIOLOGY

June 23 – August 4, 2025  
University of Pennsylvania



The Center for Engineering MechanoBiology (CEMB) is a national Science and Technology Center funded by the National Science Foundation to advance the study of mechanical forces in molecules, cells, and tissues in both plants and animals.

The summer Research Experience for Teachers (RET) is a professional development program for local K12 STEM teachers focusing on the interdisciplinary field of mechanobiology. Topics include cellular and molecular biology, bioengineering, biochemistry, biophysics and the mechanics of cells and tissues relating to cancer and other diseases, along with various aspects of plant cell biology and growth. Teachers will (1) participate in pairs in a CEMB research project during the summer, (2) develop a curriculum plan with hands-on activities to use in their teaching practice the following academic year, and (3) participate in optional academic-year workshops with the project team and other teachers to work towards program goals. [Visit our website for more information.](#)

### Benefits of participation

- Enhanced content knowledge in biology, physics, chemistry, engineering and mechanobiology
- Develop real-world research skills to enhance classroom practice
- Professional development in inquiry-based unit development
- Additional resources for classroom integration
- Satisfies Act 48 professional development requirements
- A summer stipend (\$6,000)

We encourage teachers to apply in collaborative teams from local schools and school districts in the Philadelphia region. Individuals are also welcome to apply.

APPLY BY APRIL 1, 2025.....Online APPLICATION at:  
[https://sasupenn.qualtrics.com/jfe/form/SV\\_d54Ub20KPQABDz8](https://sasupenn.qualtrics.com/jfe/form/SV_d54Ub20KPQABDz8)

